BIG EXPANSION

Five Million Dollar Corpora

tion Will Take Over Present

Indianapolis Plant.

An important financial deal in the

automobile industry is announced in the formation of the National Motor Car and Vehicle Corporation, a five million dollar New York corporation to take over the National Automobile factory at Indianapolis. This reincorporation will be the means of greatly increasing

NATIONAL CO. IN

NEGLECT IS WORST ENEMY OF THE STORAGE BATTERY

An Autopsy on Cells Which Have Met an Untimely End-Symptoms of Trouble and How to Meet Them.

> By J. EDWARD SCHIPPER of "The Automobile." In two parts-Part 2.

> > narged one

BIG SALES OF RAINIER

one of adjustment and electrical series of batteries. There are two dangers on tof adjustment and electrical series of batteries. There are two dangers in the case with Morton W state, allowing the active material to become hard, or second, the battery will be being overfed and the may freeze. Normally a battery will be being overfed and the second transport of the battery will be better the battery will be better the battery will be better to be they freeze. Normally a battery will discharge liself to a great extent if left standing idle two months. When discharged the electrolyte has a specific is that the temperature rise is too ond beyond the physical strength gravity of 1.12, and the battery will freeze at 20 degrees above zero. When the battery is fully charged and the electrolytic is up around 1.28 it will not freeze until 98 degrees below zero. Thus the danger of freezing is quite great on a discharged battery but removed. the plates to warp and hend own and a short circuit between

This high temperature which occurs the material is some charging at too high a rate also has its effect on the active material. It productly becomes burned through and and the color of a normal positive plate is a reddish chocolate brown. Deviations from this color show that some circumstances which should not have eigenstances which should not have eigenstances which should not have the material.

The battery should be fully charged when it is put away for the winter and the given an additional charge to bring it up to its proper gravity reading. If the capture and this is neglected a battery that readily starts the engine in the fall may be nothing but a container and a mass of muddy, disintegrated material, in the spring.

An important point to remember in

isintegrated material, in the spring.

An important point to remember in connection with batteries in which the material batteries in which the connection with batteries in which the material batteries in which the material batteries in which the material batteries in which the connection with batteries in which the material batteries in which the connection with batteries in which the

abstract their value from the strength of the battery. It is readily possible for the battery serice men to judge from the condition of the separators how the battery has been treated. It it quite frequent that the separator will break down just in see particular spot, allowing the two patters to come in contact with one another at this point. In disassembling the lattery where the state of affairs has occurred there will generally be a spot of the gray sulphate plate on the choolate brown surface of the positive.

The greatest clue that the owner has its the condition of his battery is in the twenty of the shallow of the shallow of the condition of his battery is in the twenty of the shallow of the shallow of the condition.

The more randition.

The more randition.

The more randition of his battery is in the twenty of the shallow of the shallow to pattern the solution becomes the condition of his battery is in the twenty of the shallow will give a reading of between 1.275 and fallized or sulphated to any extent the 1200 and if any cell is found to be be. slow to conforming charge becomes should at once be brought into the where the crystallization has occurred

carvation can bring down the vital-and health of a man just as overfeed-can do so, and in the same way a drop the active material. A buckling haters may be put into bad condition. Blate exerts enough force to crack the through not receiving enough current container of hard cubber. Insufficient charging may be due to the the precaution which is often neglicular that the generator is not delict. It is be continually on the alert enug enough current, that the battery for short circuits. These will drain the ear which has not been cased or in which frequent demonstra-lons of the starter have been made dition sulphation or crystallization oc-sthem recharging the battery or curs and the battery will deteriorate through some other conditions of ab-tormal service which cause the current a state of normal discharge.

A man who has been started for some time could not be set down tofore a 1,000 Pound Worm Drive Truck bays meal. To do so would be disas-

Every mean. I To do so would be dissessed the same rule applies to a hardy cannot he given a heavy charge to be begre, those more trust before the same way. I the base was a first before the same way the same way. If they are the same way, it has a starvation has left its marked to considered to the same way. If they are the same way, it has a starvation has left its marked to considered to the same way. If they are the same way, it has a starvation has left its marked to considered to the same way. If they are the same way, it has in the same way, and the same wa

mal life. A battery's life is about excises months. A leaky cell must be repaired as quickly as a leaky tube would be it very often happens that the liquid in one cell will be found to drap down much more rapidly than in other cette. This should be an immediate indication that samething is wrong. There is a leak through which the electhe training iway. The result is the the plates in this particular cell are being left dry and they will surfer in the way in which plates described and ilustrated have suffered if the matter is But attended to at once. A cracked jar in attended to at once. A cracked jar in zerenilly due to travelling over a touck road with the batters not firmly camped down. This correspond very closely to a cut in the tire due to travelling over sharp stones on the road. If the leaks cell is not repaired at once it throst an additional load on the good cells and not only causes the deserior. the escapeng liquid but causes the sood (ells to overheat due to too rapid charg-

If a tire is filled with too much air overstressed and it is harmed just the halmost as with underinflation. Some way with a battery. . . should filled too full because overfilling false the solution to get down he hattery box and the acid will While it whatever metal or suscepti-be material with which it comes into outside. There is a little vent passage the sell cover through which the east put into the battery. The water all be well below this, as when the ters is in use gas bubbles are forming which quickly causes the pressure in the hartery to rise if relief is not effected by an uncovered yeut. When this tent is not open the water and acid are

Fide the hox.

A mistake which is very often made is in the addition of acid to the buttery in order to bring the specific gravity weating on the hydrometer up to normal. No acid should be added by the owner except when far away from a service station, as it takes a battery expert to know when the time has arrived for the acid to be put into the solution. If acid is added hefore it is necessary the solution becomes too strong and it immediately attacks the plates and separators, destroying the insulation and killing the entire bettery.

MORTON W. SMITH HAS BIG PLANS

In Addition to Federal Will Sell Bour-Davis and Mur-

ray Cars.

When a man who is already well When a man's pulse becomes too rapid to generally accompanied by a feveris generally accompanies becomes

will take up t

cuidle, together with the well known e automobile industry, has been a con picuous figure as a six essful busines can in other lines for a long lime. He ore taking up the sale of automobile is waited for this interesting propotion to cease being "a game," so e could apply sound business prino it and be successful even if discharged battery, but remote on a and the differential. If entered the field learned the difference between the clutouffdently, and not only saw his pro-iples work out surcessfully but learns all about all automobiles from end intended to sell the things he believe the public wanted

Mr. Smith entered the industry by the potor to business interested him first.



MORTON W. SMITH. confidence. Following

oughly. We had no less than twenty makes of cars offered to us. Finally after sending experts west to investigate after sending experts west to investigate the Bour-Davis factory in Detroit and the standing and ability of the men behind it we decided to become the Eastern distributing agency for this line. In the Bour-Davis we believe we have at \$1,250 something different and distinctive that the people want. Both Mr. Bour and Mr. Davis are financiers of high standing and the car is being turned out by skilled workmen under the direction of Mr. Stewart, a man of unusual ability.

ability.

"Now I know that many persons are wondering why I added still another car to our line. It is not a hard question to answer. The most perfect and beautiful automobiles in the world are seen daily on Pifth avenue. After studying carefully the highest class foreign and domestic cars from every possible angle! I had a desire to sell what would be generally acknowledged to be the handsomest car in America. So, I got into touch with my old friend William N. Murray, a capitalist of Pittsburg and one of the first automobile enthusiasts in this country, and with him assisted this country, and with him assisted designing the Murray, an eight cylincar of unusual beauty. I don't be leve this car is second to any American or foreign model. It embodies all the sest features in grace, power and catacity to be found in the leading cars and sells delivered here for \$2.500.

"Associated with Mr. Murray are Mr. Imitifract and Mr. Vensel, each of whom are blued \$2.500.

outributed \$250,000 in cash to the en-iprise. There is no atock of this com-any for sale. The factory is busy turn-ing out cars and I'll have several of m here in a week. They may be in-cled at 228 West Fifty-seventh street are pleasure car headquarters—just a

r from Broadway.
Three of the Murray cars will be on ibition in the balcony of the Hotel tor Salon, and the Bour-Davis will shown in space C9 at the Grand ntrat Palace. William Carnegie, a nephew of An

of the best foreign and American cars, well known automobile merchant, there has been a veritable scramble among triven it from Pittsburg to Chicago and dealers in the territory which he comreturn and from Pittsburg to Atlantic trois to the up with it.

City and return in high gear, and has averaged over eleven and a half miles attention among those who know cars to s gallon of gasolene. The car will move so slowly in high gear that a man can walk completely around it at an configuracy gait, and it will spring to sixty on a single chassis which comes fitted with a start of the configuracy gait, and it will spring to sixty on a single chassis which comes fitted.

ntles an hour in very short order,
"Pittsburg is famous for its long and steep bills, and all the earnest manu-facturers of motor cars in the Middle West send cars to Pittsburg to be tested from the factories to get their bearings smooth. Carnegle has much fun with his No 1 Murray waiting around the lottom of the testing hills for victims. bottom of the testing hills for victims, lighting system. The real plants of the has beaten every car that has accepted his challenge to a race up the stiff grades, and has a standing bet of significant that he can beat any car in the makes the Dort remarkably easy rising country up any Pittsburg hill in high on the roughest acit of road, which gear." should appeal to those about to buy car-

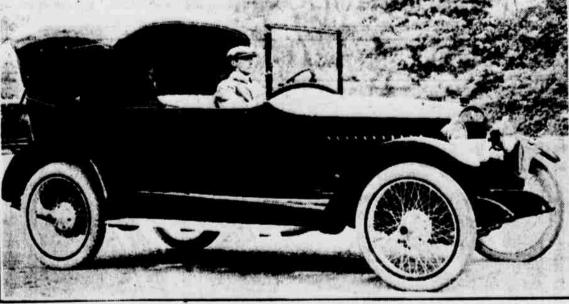
STUDEBAKER PRICES UP.

December 1.

1. J. Ollier, vice-president in charge has announced that on or about Decem-1 prices of Studebaker cars both he four and the six-would advance from \$75 to \$100 over prevailing prices a speaking of Studebaker's intention to ance prices, Mr. Ollier says. There have been advances on all ma-

erial entering into the manufacture of tomobiles, especially on steel of al note, pig iron, castings, stampings sect metal, aluminum, leather and up holstering materials. In the face of these rapid advances, ranging from to in its per cent. Studebakes has stead-fastly maintained list prices. Our ineve been responsible to a very greaters for our ability to offer a si

Liberty Performs Just as Well as It Looks.



This is the new Liberty Victoria. This type of car, with its features of privacy and freedom dust, is appealing more and more as a welcome expression of refinement in motoring. This model is on exhibition at the headquarters of Colonial Motors, Inc., Broadway near Fifty-Afth street, where John Plummer and his corps of experts will expinin the fine points and then give you an eye opening demonstration. Liberty cars are making their way with smooth and rapid strides.

INTEREST IN DORT GROWS.

C. T. Silver Has Pall Winter

One of the most important factors in the small car field is the Dort, and since it was taken in hand by C. T. Silver, the

Its sturdy construction and powerful motor are making an especial appeal. For 1317 the Dort line is concentrated on a single chassis which comes fitted with a five passenger touring body and a cloverleaf roadster body, both listing at \$695. There is also a choice for the winter months of a sedan enclosed body job and a special winter top. In equipment the Dort compares fa-

now that the winter is about to set and when results are in poor condition after the heavy summer traffic. Mr. Sliver is immensely pleased with

the reception accorded this running mate of the Chalmers, and he states the more difficulty will be in getting an allotment large enough to meet the next spring's cational

17 NEW CARS TO BE SHOWN AT PALACE

Biggest Show on Record to Be Held at Grand Central Palace Jan, 6 to 13.

Crowning the biggest and most prosperous year the motoring industry has custion, ever known it is now certain that the forthcoming show season will outrank in magnitude and importance any show Each season of the past. Both of the two yearly national shows held in New York and Chicago under the auspires of the National Automobile Chamber of Commerce, inc., will have a larger number of exhibitors than ever before. The New York Show will be held in the Grand Central Falace January 6 to 13, and the Chicago exhibition in the Colseum and Armory January 27 to February 3.
Every inch of available exhibition smale in the Grand Central Palace, a toid of 112,000 square feet, occupying four

floors, has been allotted exhibitors and to provide space for late applicants and

callonal shows all the space alletted to

first drawing. More than this, it has been found necessary to take space on the fourth floor usually given over to acthe fourth floor usually given over to ac-cessory displays in order to accommo-date ten makes of cars. When the allot-ment and drawing took place several weeks ago ninety-eight makes of cars were assigned space. Or this number seventeen will make their first appear-ance at the national shows, being cars that have some the market during

that have come upon the market during the last year.

The accessory section of the national shows will be greater than ever. The Motor and Accessory Manufacturers recent's allotted space to 115 of its mem-cers, and to this number have been added 130 concerns not members of the asso-

This company began the use of trucks two years ago and has had such excellent results that the fifth is soon to be applied

will be the means of greatly increasing the capacity of the company. Big additions are to be made to the present factory, which is one of the oldest and strongest in the business. No change is to be made in the present successful management, which will remain in active control of the company.

A. C. Newby, president: William Guy Wall, vice-president, and George M Dukson, secretary-treasurer and general manager, will continue as the same officers in the new corporation. These men have been in active charge of the National factories since that institution was founded in 1900. Directors of the new corporation will be in addition to

the three men mentioned above: Stoughter A. Fletcher, president of the Fletcher American National Bank of Indianapolis: G. J. Thomen of Redmond & Co. of New York, Leonard Snider of Leonard Snider & Co. of New York and Buell Hollister of Pyne, Kendall & Hoilister of New York.

That the reputation of the National company as a successful institution was widely known is lest evidenced by the fact that the increased stock was oversubscribed to the extent that subscriber were allotted less than one-third of the

During the past year the National company built and sold more than three times the number of cars sold the pre-vious year, and even then more than onethird of the actual orders received had to go unfilled. This tremendous increase of 300 per cent. caused the conserva-tive National company to realize that was now the opportune time to increase the factory to the size necessary to handle the business being received. The company is now just completing a threastory reenforced concrete building, 380 feet long and 60 feet wide, which will be in use before the first of December.

CARLSTROM'S GREEN JACKETS

Spillidorf Plugs Give Him Great Service Always.

It will be of interest to automobile owners who have travelled at the speed Frowley Joins Saxon Corporation, the peak Stand Andrew President of the peak Stand Motor to president of the peak Stand Motor to president of the peak Spinton Wilson H. Creates a minage of the abolished department Matter among the ferrical and of the business in the purpose of the peak of the of 134 miles an hour made by Victor

A Great Loss and a Greater Gain

Dodge Brothers business has round- volume every day, Dodge Brothers are ed out twenty-two months of existence by distributing to owners more than one hundred thousand cars.

Price-concessions on this car are rarely asked, and never given with Dodge Brothers consent or to their knowledge.

You can therefore figure accurately the amount invested by the public in Dodge Brothers cars, by multiplying the output by the retail selling price.

One hundred thousand cars at \$785 per car means a sales-total in less than two years' time of \$78,500,000-or, with freight-cost added, considerably more than \$80,000,000.

There have been no bursts of speed in the up-building of this great business.

At no time has there been even an attempt at stimulation of sales or of production.

Never for a single day has production been speeded up for the sake of attaining a total.

On the contrary, it has been held down every day within the limits of close, careful, conscientious manufacturing.

Both production and sales have been stable, steady and spontaneous-scrupulous care in the one, producing huge volume in the other.

At this moment, as at every other period, although producing a large "losing business" by their policy of keeping production within the bounds of continuous betterment.

In that sense they have doubtless suffered a great loss in the past and will endure a great loss in the future.

But over against this great loss is an infinitely greater gain.

The people of the United States have implicit faith in the integrity of Dodge Brothers manufacturing methods.

One hundred thousand owners-or

rather, one hundred thousand families -are practically of one mind concerning the car and the men who make it.

This business and its product are blessed with a friendship probably without parallel in the history of American manufacturing.

Fresh from the factory, or sold at second-hand, from one end of the nation to the other, the car has special value and a special reputation, because of the name it bears.

Because of the name it bears, you may be sure that the principle behind the car will never be changed a hair's breadth.

Dodge Brothers have only one idea in the upbuilding of their business.

That idea is to build so soundly and so well that the good will which they have won will grow and endure forever.

COLT-STRATTON COMPANY

Broadway at 57th St.

Phone Circle 1600

The price of the Touring Car or Roadster, complete, is \$785 (f. o. b. Betroit)

The price of the Winter Touring (ar or Roadster complete, including mobals top is \$950 f. o. b. Detroit



New York Branch, 206-208 Amsterdam Ave. D rect Factory Branch and Service Station

Rest Office Here's the place to come for battery service.

Not only a better battery but backed by Prest-O-Lite Service

as often as you wish.

Occasional inspection by an expert is necessary, whether your battery seems to need it or not. We will take hydrometer readings regularly and add distilled water when needed -all free of charge. If repairs are needed, we can do the work promptly

When you need a new battery

and reasonably.

soon need them.

remember, there is a Prest-O-Lite Battery of the correct size for your car and it will give you greater satisfaction and service.

Ask for printed instructions showing how to avoid winter battery troubles Our booklet, "Winter Care of Storage Batteries," gives helpful suggestions, easily followed. You'll

If you are laying your car up for the winter, leave your battery with us. For a nominal fee we will give it the attention it needs, preventing costly neglect during the cold months.

The Prest-O-Lite Co., Inc.